

# **MASTER OF SCIENCE IN STATISTICAL SCIENCE (3838)**

## **B.442 ADMISSION**

Unless Senate decides otherwise and subject to Rule A.2.4, candidates will be required to meet the following criteria to be enrolled for the degree: **Master of Science – MSc (Statistical Science)**

- B.442.1** Candidates should have an Honours degree with at least a 60% pass in Mathematics/Statistic /Data Science. If less than 60% was obtained for Mathematics/Statistics/Data Science Honours the candidate may be required to take an entry examination (test) or re-take one or more appropriate Mathematics/Statistics/Data ScienceHonours modules or both.
- B.442.2** A candidate may be required to take module(s) from the general stream as may be required to strengthen background knowledge.
- B.442.3** Students entering the program through the RPL route are required to complete a testing phase as determined by the Post-Graduate Committee of the department. Such students, on recommendation of the department, may be allowed to enrol for the Honours degree instead of the Masters programme. Upon completion of the Honours degree the student may proceed with the Masters programme if an average of 60% was obtained in the Honours programme.
- B.442.4** In the case of applicants without a Honours degree, additional information on the following aspects must be submitted on application:
- Curriculum vitae detailing all previous work experience and the period of employment;
  - Referee reports from current and previous employers;
  - Any other information as may be required.

## **B.443 SELECTION**

As only a limited number of students can be admitted to the programme, applicants will be subject to a selection procedure.

## **B.444 DURATION**

Unless Senate decides otherwise, the minimum duration of the curriculum for full-time students shall be one year and two years for part-time students.

## **B.445 CURRICULUM**

The programme has three modes of which students should select only one.

### **B.445.1 Mode 1 – Full Thesis**

<b>Module Name</b>	<b>Alpha Code</b>	<b>Cred</b>
<b>Compulsory</b>		
<b>1st Enrolment Code</b>		
Statistics Magister Thesis 801	STA801	180
<b>2nd Enrolment Code</b>		
Statistics Magister Thesis 802	STA802	
	<b>TOTAL</b>	<b>180</b>

### B.445.2 Mode 2 – Mini-thesis & Coursework

<b>Module Name</b>	<b>Alpha Code</b>	<b>Cred</b>
<b>Compulsory</b>		
<b>1st Enrolment Code</b>		
Statistics Mini - thesis 803	STA803	120
<b>2nd Enrolment Code</b>		
Statistics Mini - thesis 804	STA804	
	<b>Sub-total</b>	<b>120</b>

#### **Electives (select 4 modules). Please check with Department which elective modules will be taught.**

Simulation 817	COF817	15
Theoretical Statistics 826	COF826	15
Probability & Stochastic Processes 828	COF828	15
Time Series Analysis 829	COF829	15
Data Mining 800	STA800	15
Research Methodology 810	STA810	15
Capita Selecta 822	STA822	15
Multivariate Analysis 829	STA829	15
Experimental Design 830	STA830	15
Biostatistics 835	STA835	15
Statistical Genetics 837	STA837	15
Matrix Methods 853	STA853	15
Risk Management	COF827	15
	<b>Sub-total</b>	<b>60</b>
	<b>TOTAL</b>	<b>180</b>

### B.445.3 Mode 3 – Research Project & Coursework (Specialisation in Data Science)

<b>Module Name</b>	<b>Alpha Code</b>	<b>Cred</b>
<b>Compulsory</b>		
Research Project	STA839	90
	<b>Sub – total</b>	<b>90</b>

#### **Electives (select 6 modules). Please check with Department which elective modules will be taught.**

Data Mining	STA800	15
Capita Selecta	STA822	15
Research Methodology	STA810	15
Risk Management	COF827	15
Business Intelligence	STA841	15
Multicriteria Decision Making	STA843	15
Contemporary Business Analysis	STA842	15
	<b>Sub-total</b>	<b>90</b>
	<b>TOTAL</b>	<b>180</b>

### B.446 ASSESSMENT

Assessment is governed by Rule A.5 as stipulated in the University Calendar: General Information Part 1.

#### **B.447 PROGRESS RULES**

Registration for the following year of study will be recommended by the supervisor if in his/her opinion adequate progress has been made during the current year.

#### **B.448 RENEWAL OF REGISTRATION**

The renewal of registration will be governed by the Rule A.4, as stipulated in the University Calendar: General Information Part 1.

#### **B.449 SPECIAL REQUIREMENTS FOR THE PROGRAMME**

**B.449.1** A thesis dealing with an original research topic must be presented.

**B.449.2** Coursework may be included, as recommended by the Post-graduate Committee of the department, as a component of the programme when deemed necessary.

**B.449.3** Modules may not be repeated at Masters Level if completed at Honours level.